

RDCO-02C 3ABD64606956

RDCO-02C DDCS Communication Module Kit

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

ABB RDCO-02C 3ABD64606956 is a DDCS communication adapter kit for an ACS800 RMIO control board. It adds four optical DDCS channels for host, I/O extension, master-follower and PC-tool communication roles.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact ABB article.

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RDCO-02C
3ABD64606956

Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm RDCO-02C, ABB product ID 3ABD64606956 and option code +L509.
- 2

Isolate the ACS800 control supply and observe drive discharge procedures.
- 3

Use ESD controls while handling the adapter and exposed RMIO connectors.
- 4

Record the installed CH0, CH1, CH2 and CH3 link destinations before removal.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	RDCO-02C 3ABD64606956
Host / carrier	ABB ACS800 RMIO DDCS communication system
Primary system role	Adds four optical DDCS communication channels to the RMIO board
Acceptance boundary	Verify DDCS diagnostics and each required communication role before drive enable.
Source record	ACS800 Optional Module Catalogue

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Install RDCO-02C only on the documented RMIO control board and record each CH0-CH3 optical-fiber role before removal. Match the optical component type and transmission speed at both ends, protect fiber ends from contamination and verify every DDCS channel after controlled power-up.

- 1 Cap and protect every optical connector from dust, impact and sharp cable bends.
- 2 Match the optical component and allowed transmission speed at both fiber ends.
- 3 Refit the adapter on the documented RMIO position and restore the link topology.
- 4 Verify DDCS diagnostics and each required communication role before drive enable.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm RDCO-02C, 3ABD64606956, +L509, the installed ACS800 and RMIO execution, CH0-CH3 role and speed, fiber medium and connectors, link topology, grounding, drive firmware and configuration, and controlled DDCS diagnostic results before commissioning.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	RDCO-02C 3ABD64606956
Host match	ABB ACS800 RMIO DDCS communication system
Connection proof	Match the optical component and allowed transmission speed at both fiber ends.
Configuration proof	Refit the adapter on the documented RMIO position and restore the link topology.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Verify DDCCS diagnostics and each required communication role before drive enable.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

ACS800 host-controller link

Uses CH0 for the documented overriding-controller or fieldbus-adaptor path.

Distributed I/O extension

Uses CH1 for the approved ABB I/O-extension communication path.

Master-follower drive coordination

Uses CH2 for the documented optical drive-to-drive relationship.

Drive commissioning with PC tools

Uses CH3 for the approved engineering and diagnostic connection.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
ZCU-14	3AXD50000182992 control unit	View ZCU-14 page
ZCU-14	3AXD50000005164 control unit	View ZCU-14 page
SNAT7600	drive interface board	View SNAT7600 page
PPC381	AE 3BHE014070R0001 control board	View PPC381 page
3BHE009319R0001	UNITROL assembly	View 3BHE009319R0001 page
3BHE021083R0101	power electronics board	View 3BHE021083R0101 page
YPC111B	optical distribution board	View YPC111B page
ZINT-592	inverter main circuit board	View ZINT-592 page

MANUFACTURER SOURCE RECORD

ACS800 Optional Module Catalogue
ABB 3ABD00018063, Version B, 2009-04-28

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